

BUDGET**A. Senior Personnel**

Senior Personnel Count	12.00
Senior Personnel Calendar Months	4.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$73,638

B. Other Personnel**Post Doctoral Scholars**

Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0

Other Professionals

Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0

Graduate Students

Graduate Students Count	12.00
Graduate Students Amount	\$436,199

Undergraduate Students

Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0

Secretarial - Clerical

Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0

Other

Other Count	0.00
Other Amount	\$0

*Total Salaries and Wages
(A+B)*

\$509,837

C. Fringe Benefits

\$17,084

<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$526,921
D. Equipment	\$0
E. Travel	
Domestic	\$26,004
International	\$15,000
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$224,267
<i>Total Other Direct Costs (G)</i>	\$224,267
H. Total Direct Costs (A Through G)	\$792,192
I. Indirect Costs*	\$407,808
J. Total Direct and Indirect Costs (H + I)	\$1,200,000
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$1,200,000
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC - On Site - Research	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost

rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2107391

Managing Division Abbreviation: IIS

Amendment Number: 001

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: Supplement

Amendment Date: 03/25/2025

Amendment Number: 001

Proposal Number: 2505221

Amendment Description:

The purpose of this amendment is to:

- Add supplemental support to the award in the amount shown below in the Funding Information section.
- Extend the end date from 09/30/2025 to 12/31/2025.

Except as modified by this amendment, the award conditions remain unchanged.

AWARD INFORMATION

Award Number (FAIN): 2107391

Award Instrument: Standard Grant

Award Date: 07/20/2021

Award Period of Performance: Start Date: 10/01/2021 End Date: 12/31/2025

Project Title: HCC: Medium: Improving Human-AI Collaboration on Decision-Making Tasks

Managing Division Abbreviation: IIS

Research and Development Award: Yes

Funding Opportunity: NSF 20-591 Computer and Information Science and Engineering (CISE): Core Programs

Assistance Listing Number(s) and Name(s): 47.070 Computer and Information Science and Engineering (See Amendment 000 for source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$30,000
Total Intended Award Amount: \$1,200,000
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$1,230,000

PROJECT PERSONNEL

Principal Investigator:

[REDACTED]

Email:

[REDACTED]

Organization: PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE

co-Principal Investigator:

[REDACTED]

Email:

[REDACTED]

Organization: PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE

co-Principal Investigator:

[REDACTED]

Email:

[REDACTED]

Organization: PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE

NSF CONTACT INFORMATION

Managing Grants Official
(Primary Contact)

Name: Tianay M. Robinson

Email: trobinso@nsf.gov

Phone: (703) 292-7859

Awarding Official

Name: Tianay M. Robinson

Email: trobinso@nsf.gov

Managing Program Officer

Name: Todd Leen

Email: tleen@nsf.gov

Phone: (703) 292-7215

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to NSF Grant General Conditions (GC-1), dated 10/01/2024, available at https://www.nsf.gov/awards/managing/general_conditions.jsp.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

BUDGET

A. Senior Personnel	
Senior Personnel Count	3.00
Senior Personnel Calendar Months	0.00
Senior Personnel Academic Months	0.00

Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$0
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	1.00
Post Doctoral Calendar Months	3.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$14,527
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	0.00
Graduate Students Amount	\$0
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$14,527
C. Fringe Benefits	\$3,225
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$17,752
D. Equipment	\$0
E. Travel	
Domestic	\$0
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0

Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$0
<i>Total Other Direct Costs (G)</i>	\$0
H. Total Direct Costs (A Through G)	\$17,752
I. Indirect Costs*	\$12,248
J. Total Direct and Indirect Costs (H + I)	\$30,000
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$30,000
M. Cost Sharing Proposed Level	\$0

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2417241

Managing Division Abbreviation: SES

Amendment Number: 000

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 11/14/2024

Amendment Number: 000

Proposal Number: 2417241

Amendment Description:

The National Science Foundation hereby awards a Continuing Grant for support of the project described in the proposal referenced above.

Funds provided for participant support may not be diverted by the awardee to other categories of expense without the prior written approval of the cognizant NSF Program Officer. Since participant support cost is not a normal account classification, the awardee organization must be able to separately identify participant support costs. It is highly recommended that separate accounts, sub-accounts, sub-task, or sub-ledgers be established to accumulate these costs. The awardee should have written policies and procedures to segregate participant support costs.

AWARD INFORMATION

Award Number (FAIN): 2417241

Award Instrument: Continuing Grant

Award Date: 11/14/2024

Award Period of Performance: Start Date: 10/15/2024 End Date: 09/30/2027

Project Title: SBE-UKRI: Resource Rational Contractualism: A foundation for moral judgment and decision making

Managing Division Abbreviation: SES

Research and Development Award: Yes

Funding Opportunity: NSF 23-1 Proposal & Award Policies & Procedures Guide - PAPPG

Assistance Listing Number(s) and Name(s): 47.075 Social, Behavioral, and Economic Sciences
(Predominant source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$212,203
Total Intended Award Amount: \$690,003
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$212,203
Expenditure Limitation: Not Applicable

Contingent on the availability of funds and scientific progress of the project, NSF expects to continue support at approximately the following level:

Fiscal Year	Increment Amount
2026	\$261,833
2027	\$215,967

PROJECT PERSONNEL

Principal Investigator:

Email:

Organization: PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE

NSF CONTACT INFORMATION

Managing Grants Official
(Primary Contact)
Name: Tyffani N. Smith
Email: tnsmith@nsf.gov
Phone: (703) 292-7046

Awarding Official
Name: Tyffani N. Smith
Email: tnsmith@nsf.gov

Managing Program Officer
Name: Robert E O'Connor
Email: roconnor@nsf.gov
Phone: (703) 292-7263

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to NSF Grant General Conditions (GC-1), dated 10/01/2024, available at https://www.nsf.gov/awards/managing/general_conditions.jsp.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

BUDGET

A. Senior Personnel	
Senior Personnel Count	1.00
Senior Personnel Calendar Months	0.50
Senior Personnel Academic	0.00

Months	
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$12,738
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	1.00
Post Doctoral Calendar Months	12.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$65,000
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	0.00
Graduate Students Amount	\$0
Undergraduate Students	
Undergraduate Students Count	6.00
Undergraduate Students Amount	\$14,000
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$91,738
C. Fringe Benefits	\$18,086
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$109,824
D. Equipment	\$0
E. Travel	
Domestic	\$6,000
International	\$1,000
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0

Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$2,500
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$6,240
<i>Total Other Direct Costs (G)</i>	\$8,740
H. Total Direct Costs (A Through G)	\$125,564
I. Indirect Costs*	\$86,639
J. Total Direct and Indirect Costs (H + I)	\$212,203
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$212,203
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
F&A	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2421119

Managing Division Abbreviation: IOS

Amendment Number: 000

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 08/14/2024

Amendment Number: 000

Proposal Number: 2421119

Amendment Description:

The National Science Foundation hereby awards a Continuing Grant for support of the project described in the proposal referenced above.

It is the grantee's responsibility to ensure that any vertebrate animal work conducted under this award has Institutional Animal Care and Use Committee (IACUC) approval, where required, that the approval be from an organization that has a current Public Health Service-approved Animal Welfare Assurance, and that such approval remains valid at all times that vertebrate animal work is conducted under the award. See the NSF PAPPG Chapter II.D.4, for additional information. This condition extends to vertebrate animal work funded via use of a subaward. Failure to comply with this condition will result in suspension and/or termination of the award.

AWARD INFORMATION

Award Number (FAIN): 2421119

Award Instrument: Continuing Grant

Award Date: 08/14/2024

Award Period of Performance: Start Date: 10/01/2024 End Date: 09/30/2028

Project Title: Collaborative Research: EDGE CMT: Shared genetic and cellular mechanisms of vertebrate limb and fin regeneration.

Managing Division Abbreviation: IOS

Research and Development Award: Yes

Funding Opportunity: NSF 21-546 Enabling Discovery through GENomics

Assistance Listing Number(s) and Name(s): 47.074 Biological Sciences (Predominant source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$251,118
Total Intended Award Amount: \$334,824
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$251,118
Expenditure Limitation: Not Applicable

Contingent on the availability of funds and scientific progress of the project, NSF expects to continue support at approximately the following level:

Fiscal Year	Increment Amount
2025	\$83,706

PROJECT PERSONNEL

Principal Investigator: [REDACTED]

Email: [REDACTED]

Organization: PRESIDENT AND FELLOWS OF HARVARD COLLEGE

COLLABORATIVE INFORMATION

Proposal ID	Lead	PI Name	Organization
2421117	Y	[REDACTED]	Louisiana State University
2421118	N		University of California, Irvine
2421119	N		Harvard College, President & Fellows of Harvard University

NSF CONTACT INFORMATION

Managing Grants

Official (Primary Contact): Termia M. Millard
Name: Termia M. Millard
Email:

Awarding Official Name: Vanessa L. Richardson
Email: vlrichar@nsf.gov

Managing Program Officer

Name: Matthew Fujita
Email: mfujita@nsf.gov
Phone: (703) 292-7814

tmillard@nsf.gov
Phone: (703) 292-7074

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/20/2024, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 21-546 Enabling Discovery through GENomics.

BUDGET

A. Senior Personnel	
Senior Personnel Count	3.00
Senior Personnel Calendar Months	1.80
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$23,220
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	

Graduate Students Count	0.00
Graduate Students Amount	\$0
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	3.00
Other Amount	\$61,839
<i>Total Salaries and Wages (A+B)</i>	\$85,059
C. Fringe Benefits	\$30,531
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$115,590
D. Equipment	\$0
E. Travel	
Domestic	\$0
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$33,000
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$0
<i>Total Other Direct Costs (G)</i>	\$33,000
H. Total Direct Costs (A Through G)	\$148,590
I. Indirect Costs*	\$102,528
J. Total Direct and Indirect Costs (H + I)	\$251,118
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$251,118

M. Cost Sharing Proposed Level	\$0
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*Indirect Cost Rates

Item Name	Indirect Cost Rate
Modified Total Direct Cost	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2421461

Managing Division Abbreviation: EFMA

Amendment Number: 000

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 07/22/2024

Amendment Number: 000

Proposal Number: 2421461

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above.

Funds provided for participant support may not be diverted by the awardee to other categories of expense without the prior written approval of the cognizant NSF Program Officer. Since participant support cost is not a normal account classification, the awardee organization must be able to separately identify participant support costs. It is highly recommended that separate accounts, sub-accounts, sub-task, or sub-ledgers be established to accumulate these costs. The awardee should have written policies and procedures to segregate participant support costs.

AWARD INFORMATION

Award Number (FAIN): 2421461

Award Instrument: Standard Grant

Award Date: 07/22/2024

Award Period of Performance: Start Date: 11/01/2024 End Date: 10/31/2027

Project Title: TRAILBLAZER: Biodegradable Living Materials

Managing Division Abbreviation: EFMA

Research and Development Award: Yes

Funding Opportunity: NSF 23-629 NSF Trailblazer Engineering Impact Award (TRAILBLAZER)

Assistance Listing Number(s) and Name(s): 47.041 Engineering Grants (Predominant source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$2,972,873
Total Intended Award Amount: \$2,972,873
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$2,972,873
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL**Principal Investigator:****Email:**

Organization: PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE

NSF CONTACT INFORMATION**Managing Grants Official**

(Primary Contact)

Name: Tamika Lloyd**Email:** tlloyd@nsf.gov**Phone:****Awarding Official****Name:** Willis Phan**Email:** wiphan@nsf.gov**Managing Program Officer****Name:** Alias Smith**Email:** alismith@nsf.gov**Phone:** (703) 292-8367**GENERAL TERMS AND CONDITIONS**

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/20/2024, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 23-629 NSF Trailblazer Engineering Impact Award (TRAILBLAZER).

BUDGET**A. Senior Personnel**

Senior Personnel Count	3.00
Senior Personnel Calendar Months	6.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00

Senior Personnel Amount	\$189,390
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	6.00
Post Doctoral Calendar Months	36.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$405,835
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	12.00
Graduate Students Amount	\$624,361
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$1,219,586
C. Fringe Benefits	\$127,973
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$1,347,559
D. Equipment	\$0
E. Travel	
Domestic	\$52,500
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$42,000
Participant Support Costs Travel	\$0

Participant Support Costs Subsistence	\$24,000
Participant Support Costs Other	\$0
Total Number of Participants	6.00
<i>Total Participant Costs (F)</i>	\$66,000
G. Other Direct Costs	
Materials Supplies	\$150,000
Publication Costs	\$6,000
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$266,782
<i>Total Other Direct Costs (G)</i>	\$422,782
H. Total Direct Costs (A Through G)	\$1,888,841
I. Indirect Costs*	\$1,084,032
J. Total Direct and Indirect Costs (H + I)	\$2,972,873
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$2,972,873
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2121239

Managing Division Abbreviation: BCS

Amendment Number: 000

AWARDEE INFORMATION

Award Recipient: Harvard College, President & Fellows of Harvard University

Awardee Address: 1033 MASSACHUSETTS AVE 5th Floor Cambridge, MA 02138-5369

Official Awardee Email Address: [REDACTED]

Unique Entity Identifier (DUNS ID): 082359691

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 08/31/2021

Amendment Number: 000

Proposal Number: 2121239

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above as modified by revised budget dated 07/20/2021.

AWARD INFORMATION

Award Number (FAIN): 2121239

Award Instrument: Standard Grant

Award Date: 08/31/2021

Award Period of Performance: Start Date: 01/01/2022 End Date: 12/31/2025

Project Title: Collaborative Research: HNDS-I: A global seafood trade network database for sustainable food systems, human health, and nutrition security

Managing Division Abbreviation: BCS

Research and Development Award: Yes

Funding Opportunity: NSF 21-514 Human Networks and Data Science

CFDA Number and Name: 47.075 Social, Behavioral, and Economic Sciences

FUNDING INFORMATION

Amount Obligated by this Amendment: \$114,760

Total Intended Award Amount: \$114,760
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$114,760
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator: [REDACTED] **Email:** [REDACTED] **Institution:** Harvard University

COLLABORATIVE INFORMATION

Proposal ID	Lead	PI Name	Institution
2121238	Y	[REDACTED]	The American University
2121239	N	[REDACTED]	Harvard College, President & Fellows of Harvard University

NSF CONTACT INFORMATION

Managing Grants

Official (Primary Contact)
Name: Christine Castell
Email: ccastell@nsf.gov

Awarding Official
Name: Willie M. Powell
Email: wpowell@nsf.gov

Managing Program Officer
Name: Patricia Van Zandt
Email: pvanzand@nsf.gov

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 11/12/2020, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 21-514 Human Networks and Data Science.

BUDGET**A. Senior Personnel**

Senior Personnel Count	4.00
Senior Personnel Calendar Months	2.16
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$25,621

B. Other Personnel**Post Doctoral Scholars**

Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0

Other Professionals

Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0

Graduate Students

Graduate Students Count	4.00
Graduate Students Amount	\$40,000

Undergraduate Students

Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0

Secretarial - Clerical

Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0

Other

Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$65,621

C. Fringe Benefits

<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$71,950
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D. Equipment

	\$0
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E. Travel	
Domestic	\$0
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$0
<i>Total Other Direct Costs (G)</i>	\$0
H. Total Direct Costs (A Through G)	\$71,950
I. Indirect Costs*	\$42,810
J. Total Direct and Indirect Costs (H + I)	\$114,760
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$114,760
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
Modified Total Direct Costs	59.5000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2123965

Managing Division Abbreviation: CCF

Amendment Number: 000

AWARDEE INFORMATION

Award Recipient: Harvard College, President & Fellows of Harvard University

Awardee Address: 1033 MASSACHUSETTS AVE 5th Floor Cambridge, MA 02138-5369

Official Awardee Email Address: [REDACTED]

Unique Entity Identifier (DUNS ID): 082359691

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 06/08/2021

Amendment Number: 000

Proposal Number: 2123965

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above .

The project must ensure that one or more of the PIs, Co-PIs, senior personnel, senior graduate students, and/or postdoctoral researchers funded under this grant will attend, and actively participate in, the FMiTF PI meeting to be held in 2023.

Incentive payments or gifts to participants must be made in accordance with written institutional policies and procedures and supported by auditable documentation. The allowability of these costs will ultimately be based on the awardee institution's ability to adequately demonstrate that the incentives have been disbursed in accordance with its policies and procedures.

AWARD INFORMATION

Award Number (FAIN): 2123965

Award Instrument: Standard Grant

Award Date: 06/08/2021

Award Period of Performance: Start Date: 10/01/2021 End Date: 09/30/2025

Project Title: Collaborative Research: FMiTF: Track I: Usable Synthesis-based End-User Programming with Rich Interaction Modalities

Managing Division Abbreviation: CCF

Research and Development Award: Yes

Funding Opportunity: NSF 20-613 Formal Methods in the Field
CFDA Number and Name: 47.070 Computer and Information Science and Engineering

FUNDING INFORMATION

Amount Obligated by this Amendment: \$350,000
Total Intended Award Amount: \$350,000
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$350,000
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator: [REDACTED] **Email:** [REDACTED] **Institution:** Harvard University

COLLABORATIVE INFORMATION

Proposal ID	Lead	PI Name	Institution
2123654	Y	[REDACTED]	Regents of the University of Michigan
2123965	N	[REDACTED]	Harvard College, President & Fellows of Harvard University

NSF CONTACT INFORMATION

Managing Grants

Official (Primary Contact)

Name: Daniel P McEnrue
Email: dpmcenru@nsf.gov

Awarding Official

Name: Daniel P McEnrue
Email: dpmcenru@nsf.gov

Managing Program Officer

Name: Dan R. Cosley
Email: dcosley@nsf.gov

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 11/12/2020, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 20-613 Formal Methods in the Field.

BUDGET

A. Senior Personnel	
Senior Personnel Count	4.00
Senior Personnel Calendar Months	1.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$14,202
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	4.00
Graduate Students Amount	\$129,315
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00

Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$143,517
C. Fringe Benefits	\$3,296
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$146,813
D. Equipment	\$0
E. Travel	
Domestic	\$5,036
International	\$14,964
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$64,636
<i>Total Other Direct Costs (G)</i>	\$64,636
H. Total Direct Costs (A Through G)	\$231,449
I. Indirect Costs*	\$118,551
J. Total Direct and Indirect Costs (H + I)	\$350,000
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$350,000
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost
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	Rate
MTDC - On Site - Research	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2127882

Managing Division Abbreviation: CHE

Amendment Number: 001

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: Creativity Extension

Amendment Date: 08/09/2024

Amendment Number: 001

Proposal Number: 2440743

Amendment Description:

The purpose of this amendment is to:

- Add additional support for creativity to the award in the amount shown below in the Funding Information section.
- Extend the end date from 08/31/2024 to 08/31/2025.
- The Foundation authorizes the awardee to enter into the proposed subaward arrangement. The subaward agreement should contain appropriate provisions in accordance with the award terms and conditions in effect at the time of this award amendment, and contain any special conditions included in this award.

Except as modified by this amendment, the award conditions remain unchanged.

AWARD INFORMATION

Award Number (FAIN): 2127882

Award Instrument: Standard Grant

Award Date: 08/12/2021

Award Period of Performance: Start Date: 09/01/2021 End Date: 08/31/2025

Project Title: Collaborative Research: MFB: Deciphering the Logic of PTM Crosstalk via Novel Chemical Technology: Histones and Beyond

Managing Division Abbreviation: CHE

Research and Development Award: Yes

Funding Opportunity: NSF 21-540 Molecular Foundations for Biotechnology
Assistance Listing Number(s) and Name(s): 47.049 Mathematical and Physical Sciences (See Amendment 000 for source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$500,000
Total Intended Award Amount: \$1,500,000
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$2,000,000

PROJECT PERSONNEL

Principal Investigator: [REDACTED] [REDACTED]	Email: [REDACTED]	Organization: PRESIDENT AND FELLOWS OF HARVARD COLLEGE
co-Principal Investigator: [REDACTED]	Email: [REDACTED]	Organization: WASHINGTON UNIVERSITY, THE

NSF CONTACT INFORMATION

Managing Grants Official (Pimary Contact) Name: Pamela V. Conyers Email: pconyers@nsf.gov Phone: (703) 292-5329	Awarding Official Name: Denise M. Martin Email: dmartin@nsf.gov	Managing Program Officer Name: Tingyu Li Email: tli@nsf.gov Phone: (703) 292-4949
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GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/20/2024, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

BUDGET

A. Senior Personnel

Senior Personnel Count	2.00
Senior Personnel Calendar Months	0.46
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$11,178
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	2.00
Post Doctoral Calendar Months	100.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$71,429
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	1.00
Graduate Students Amount	\$49,211
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$131,818
C. Fringe Benefits	\$28,198
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$160,016
D. Equipment	\$0
E. Travel	
Domestic	\$0
International	\$0

F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$36,747
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$155,549
Other	\$11,103
<i>Total Other Direct Costs (G)</i>	\$203,399
H. Total Direct Costs (A Through G)	\$363,415
I. Indirect Costs*	\$136,585
J. Total Direct and Indirect Costs (H + I)	\$500,000
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$500,000
M. Cost Sharing Proposed Level	\$0

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2127882

Managing Division Abbreviation: CHE

Amendment Number: 000

AWARDEE INFORMATION

Award Recipient: Harvard College, President & Fellows of Harvard University

Awardee Address: 1033 MASSACHUSETTS AVE 5th Floor Cambridge, MA 02138-5369

Official Awardee Email Address: [REDACTED]

Unique Entity Identifier (DUNS ID): 082359691

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 08/12/2021

Amendment Number: 000

Proposal Number: 2127882

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above .

The Foundation authorizes the awardee to enter into the proposed subaward arrangement and to fund the subaward with award funds up to the amount indicated in the approved budget or NSF-approved post award request. The subaward should contain appropriate provisions consistent with Appendix B of the Research Terms and Conditions (RTC) dated November 12, 2020, or Articles 8.a.4. and 9 of the NSF Grant General Conditions (GC-1) dated November 12, 2020 (as appropriate), as well as any special conditions included in this award.

AWARD INFORMATION

Award Number (FAIN): 2127882

Award Instrument: Standard Grant

Award Date: 08/12/2021

Award Period of Performance: Start Date: 09/01/2021 End Date: 08/31/2024

Project Title: Collaborative Research: MFB: Deciphering the Logic of PTM Crosstalk via Novel Chemical Technology: Histones and Beyond

Managing Division Abbreviation: CHE

Research and Development Award: Yes

Funding Opportunity: NSF 21-540 Molecular Foundations for Biotechnology

CFDA Number and Name: 47.049 Mathematical and Physical Sciences

FUNDING INFORMATION

Amount Obligated by this Amendment: \$1,500,000
Total Intended Award Amount: \$1,500,000
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$1,500,000
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator: [REDACTED] **Email:** [REDACTED] **Institution:** Harvard University
Co-Principal Investigator: [REDACTED] **Email:** [REDACTED] **Institution:** Washington University

NSF CONTACT INFORMATION

Managing Grants Official (Primary Contact) **Awarding Official** **Managing Program Officer**
Name: Pamela V. Conyers **Name:** Pamela V. Conyers **Name:** Max Funk
Email: pconyers@nsf.gov **Email:** pconyers@nsf.gov **Email:** mfunk@nsf.gov

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 11/12/2020, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 21-540 Molecular Foundations for Biotechnology.

BUDGET

A. Senior Personnel	
Senior Personnel Count	6.00
Senior Personnel Calendar Months	1.80
Senior Personnel Academic Months	0.00

Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$42,874
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	3.00
Post Doctoral Calendar Months	36.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$177,154
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	3.00
Graduate Students Amount	\$64,656
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$284,684
C. Fringe Benefits	\$71,693
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$356,377
D. Equipment	\$0
E. Travel	
Domestic	\$0
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0

Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$67,965
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$750,000
Other	\$14,032
<i>Total Other Direct Costs (G)</i>	\$831,997
H. Total Direct Costs (A Through G)	\$1,188,374
I. Indirect Costs*	\$311,626
J. Total Direct and Indirect Costs (H + I)	\$1,500,000
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$1,500,000
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC Salaries&Fringe ,supplies and subaward base(10 months)	69.0000%
MTDC Salaries&Fringe ,supplies and subaward base(2 months)	69.5000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2129576

Managing Division Abbreviation: AGS

Amendment Number: 001

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: Supplement

Amendment Date: 12/19/2024

Amendment Number: 001

Proposal Number: 2513434

Amendment Description:

The purpose of this amendment is to:

- Add supplemental support to the award in the amount shown below in the Funding Information section.

Funds provided for participant support may not be diverted by the awardee to other categories of expense without the prior written approval of the cognizant NSF Program Officer. Since participant support cost is not a normal account classification, the awardee organization must be able to separately identify participant support costs. It is highly recommended that separate accounts, sub-accounts, sub-task, or sub-ledgers be established to accumulate these costs. The awardee should have written policies and procedures to segregate participant support costs.

Except as modified by this amendment, the award conditions remain unchanged.

AWARD INFORMATION

Award Number (FAIN): 2129576

Award Instrument: Standard Grant

Award Date: 11/09/2021

Award Period of Performance: Start Date: 11/15/2021 End Date: 10/31/2025

Project Title: Explaining the Surprising Simplicity of Continental Evapotranspiration

Managing Division Abbreviation: AGS

Research and Development Award: Yes

Funding Opportunity: PD 06-5740 Climate and Large-Scale Dynamics

Assistance Listing Number(s) and Name(s): 47.050 Geosciences (See Amendment 000 for source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$24,120

Total Intended Award Amount: \$310,789

Total Approved Cost Share or Matching Amount: \$0

Total Amount Obligated to Date: \$334,909

PROJECT PERSONNEL

Principal Investigator:

[REDACTED]

Email:

[REDACTED]

Organization: PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE

NSF CONTACT INFORMATION

Managing Grants Official

(Primary Contact)

Name: Staci Jenkins

Email: sjenkins@nsf.gov

Phone: (703) 292-5042

Awarding Official

Name: Willie M. Powell

Email: wpowell@nsf.gov

Managing Program Officer

Name: Eric DeWeaver

Email: edeweave@nsf.gov

Phone: (703) 292-8527

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to NSF Grant General Conditions (GC-1), dated 10/01/2024, available at https://www.nsf.gov/awards/managing/general_conditions.jsp.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

BUDGET

A. Senior Personnel	
Senior Personnel Count	0.00
Senior Personnel Calendar Months	0.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer	0.00

Months	
Senior Personnel Amount	\$0
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	0.00
Graduate Students Amount	\$0
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$0
C. Fringe Benefits	\$0
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$0
D. Equipment	\$0
E. Travel	
Domestic	\$0
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$24,120
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0

Total Number of Participants	16.00
<i>Total Participant Costs (F)</i>	\$24,120
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$0
<i>Total Other Direct Costs (G)</i>	\$0
H. Total Direct Costs (A Through G)	\$24,120
I. Indirect Costs*	\$0
J. Total Direct and Indirect Costs (H + I)	\$24,120
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$24,120
M. Cost Sharing Proposed Level	\$0

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2129576

Managing Division Abbreviation: AGS

Amendment Number: 000

AWARDEE INFORMATION

Award Recipient: Harvard College, President & Fellows of Harvard University

Awardee Address: 1033 MASSACHUSETTS AVE 5th Floor Cambridge, MA 02138-5369

Official Awardee Email Address: [REDACTED]

Unique Entity Identifier (DUNS ID): 082359691

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 11/09/2021

Amendment Number: 000

Proposal Number: 2129576

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above.

AWARD INFORMATION

Award Number (FAIN): 2129576

Award Instrument: Standard Grant

Award Date: 11/09/2021

Award Period of Performance: Start Date: 11/15/2021 End Date: 10/31/2024

Project Title: Explaining the Surprising Simplicity of Continental Evapotranspiration

Managing Division Abbreviation: AGS

Research and Development Award: Yes

Funding Opportunity: PD 06-5740 Climate and Large-Scale Dynamics

Assistance Listing Number(s) and Name(s): 47.050 Geosciences

FUNDING INFORMATION

Amount Obligated by this Amendment: \$310,789

Total Intended Award Amount: \$310,789

Total Approved Cost Share or Matching Amount: \$0**Total Amount Obligated to Date:** \$310,789**Expenditure Limitation:** Not Applicable**PROJECT PERSONNEL****Principal Investigator:****Email:****Institution:** Harvard University**NSF CONTACT INFORMATION****Managing Grants Official**
(Primary Contact)**Name:** Meredith Whitty**Email:** mwhitty@nsf.gov**Awarding Official****Name:** Willie M. Powell**Email:** wpowell@nsf.gov**Managing Program Officer****Name:** Eric DeWeaver**Email:** edeweave@nsf.gov**GENERAL TERMS AND CONDITIONS**

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 10/04/2021, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

BUDGET

A. Senior Personnel	
Senior Personnel Count	3.00
Senior Personnel Calendar Months	3.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$36,080
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic	0.00

Months	
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	3.00
Graduate Students Amount	\$122,948
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$159,028
C. Fringe Benefits	\$8,371
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$167,399
D. Equipment	\$0
E. Travel	
Domestic	\$7,500
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$9,000

Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$0
<i>Total Other Direct Costs (G)</i>	\$9,000
H. Total Direct Costs (A Through G)	\$183,899
I. Indirect Costs*	\$126,890
J. Total Direct and Indirect Costs (H + I)	\$310,789
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$310,789
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
F&A	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2129580

Managing Division
Abbreviation: DBI

Amendment Number: 001

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE
Recipient Address: 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366
Official Recipient Email Address: [REDACTED]
Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: No Cost Extensions
Amendment Date: 08/16/2024
Amendment Number: 001
Proposal Number: Not Applicable
Amendment Description:

The purpose of this amendment is to extend the end date from 09/30/2024 to 09/30/2025 in accordance with the NSF Approved No-Cost Extension request submitted on 08/02/2024 without additional funds to allow for the completion of the agreed-to level of effort.

Except as modified by this amendment, the award conditions remain unchanged.

PROJECT PERSONNEL

Principal Investigator:

[REDACTED]

Email

[REDACTED]

Organization:
PRESIDENT AND
FELLOWS OF HARVARD
COLLEGE

co-Principal Investigator:

[REDACTED]

Email:

[REDACTED]

Organization:
PRESIDENT AND
FELLOWS OF HARVARD
COLLEGE

co-Principal Investigator:

[REDACTED]

Email:

[REDACTED]

Organization:

PRESIDENT AND
FELLOWS OF HARVARD
COLLEGE

co-Principal Investigator:

[REDACTED]

Email:

[REDACTED]

Organization:

PRESIDENT AND
FELLOWS OF HARVARD
COLLEGE

NSF CONTACT INFORMATION

Managing Grants Official
(Primary Contact)

Name: Termia M. Millard

Email: tmillard@nsf.gov

Phone: (703) 292-7074

Awarding Official

Name: Vanessa L. Richardson

Email: vlrichar@nsf.gov

**Managing Program
Officer**

Name: Reed Schiele
Beaman

Email: rsbeaman@nsf.gov

Phone: (703) 292-7163

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2129580

Managing Division Abbreviation: DBI

Amendment Number: 000

AWARDEE INFORMATION

Award Recipient: Harvard College, President & Fellows of Harvard University

Awardee Address: 1033 MASSACHUSETTS AVE 5th Floor Cambridge, MA 02138-5369

Official Awardee Email Address: [REDACTED]

Unique Entity Identifier (DUNS ID): 082359691

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 08/04/2021

Amendment Number: 000

Proposal Number: 2129580

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above as modified by revised budget dated 07/23/2021.

AWARD INFORMATION

Award Number (FAIN): 2129580

Award Instrument: Standard Grant

Award Date: 08/04/2021

Award Period of Performance: Start Date: 10/01/2021 End Date: 09/30/2022

Project Title: Revitalizing a field wireless network for research, education and outreach at the Harvard Forest

Managing Division Abbreviation: DBI

Research and Development Award: Yes

Funding Opportunity: NSF 21-501 Infrastructure Capacity for Biological Research

CFDA Number and Name: 47.074 Biological Sciences

FUNDING INFORMATION

Amount Obligated by this Amendment: \$161,588

Total Intended Award Amount: \$161,588
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$161,588
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator: [REDACTED] **Email:** [REDACTED] **Institution:** Harvard University

Co-Principal Investigator: [REDACTED] **Email:** [REDACTED] **Institution:** Harvard University

Co-Principal Investigator: [REDACTED] **Email:** [REDACTED] **Institution:** Harvard University

Co-Principal Investigator: [REDACTED] **Email:** [REDACTED] **Institution:** Harvard University

NSF CONTACT INFORMATION

Managing Grants Official
 (Primary Contact)
Name: Denise L Hundley
Email: dhundley@nsf.gov

Awarding Official
Name: Vanessa L. Richardson
Email: vlrichar@nsf.gov

Managing Program Officer
Name: Peter H. McCartney
Email: pmccartn@nsf.gov

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 11/12/2020, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 21-501 Infrastructure Capacity for Biological Research.

BUDGET

A. Senior Personnel	
Senior Personnel Count	4.00
Senior Personnel Calendar Months	1.50

Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$14,196
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	2.00
Other Professionals Calendar Months	2.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$11,202
Graduate Students	
Graduate Students Count	0.00
Graduate Students Amount	\$0
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$25,398
C. Fringe Benefits	\$12,043
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$37,441
D. Equipment	\$88,738
E. Travel	
Domestic	\$0
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0

Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$16,085
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$840
<i>Total Other Direct Costs (G)</i>	\$16,925
H. Total Direct Costs (A Through G)	\$143,104
I. Indirect Costs*	\$18,484
J. Total Direct and Indirect Costs (H + I)	\$161,588
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$161,588
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	34.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2137723

Managing Division Abbreviation: OMA

Amendment Number: 000

AWARDEE INFORMATION

Award Recipient: Harvard College, President & Fellows of Harvard University

Awardee Address: 1033 MASSACHUSETTS AVE 5th Floor Cambridge, MA 02138-5369

Official Awardee Email Address: [REDACTED]

Unique Entity Identifier (DUNS ID): 082359691

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 09/08/2021

Amendment Number: 000

Proposal Number: 2137723

Amendment Description:

The National Science Foundation hereby awards a Continuing Grant for support of the project described in the proposal referenced above .

The Foundation authorizes the awardee to enter into the proposed subaward arrangement and to fund the subaward with award funds up to the amount indicated in the approved budget or NSF-approved post award request. The subaward should contain appropriate provisions consistent with Appendix B of the Research Terms and Conditions (RTC) dated November 12, 2020, or Articles 8.a.4. and 9 of the NSF Grant General Conditions (GC-1) dated November 12, 2020 (as appropriate), as well as any special conditions included in this award.

AWARD INFORMATION

Award Number (FAIN): 2137723

Award Instrument: Continuing Grant

Award Date: 09/08/2021

Award Period of Performance: Start Date: 09/15/2021 End Date: 08/31/2025

Project Title: QuIC-TAQS: Integrated Lithium Niobate Quantum Photonics Platform

Managing Division Abbreviation: OMA

Research and Development Award: Yes

Funding Opportunity: NSF 21-553 Enabling Quantum Leap: Quantum Interconnect Challenges for Transformational Advances in Quantum Systems

CFDA Number and Name: 47.049 Mathematical and Physical Sciences

FUNDING INFORMATION

Amount Obligated by this Amendment: \$1,235,603
Total Intended Award Amount: \$2,500,000
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$1,235,603
Expenditure Limitation: Not Applicable

Contingent on the availability of funds and scientific progress of the project, NSF expects to continue support at approximately the following level:

Fiscal Year	Increment Amount
2022	\$934,890
2023	\$329,507

PROJECT PERSONNEL

Principal Investigator: [REDACTED]	Email: [REDACTED]	Institution: Harvard University
co-Principal Investigator: [REDACTED]	Email: [REDACTED]	Institution: Stanford University
co-Principal Investigator: [REDACTED]	Email: [REDACTED]	Institution: Massachusetts Institute of Technology
co-Principal Investigator: [REDACTED]	Email: [REDACTED]	Institution: University of Maryland, College Park
co-Principal Investigator: [REDACTED]	Email: [REDACTED]	Institution: Harvard University

NSF CONTACT INFORMATION

Managing Grants Official (Primary Contact) Name: Lynda Kummelt Email: lkummelt@nsf.gov	Awarding Official Name: Aprile N Roberson Email: aroberso@nsf.gov	Managing Program Officer Name: Bogdan Mihaila Email: bmihaila@nsf.gov
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GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 11/12/2020, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement

which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 21-553 Enabling Quantum Leap: Quantum Interconnect Challenges for Transformational Advances in Quantum Systems.

BUDGET

A. Senior Personnel	
Senior Personnel Count	0.00
Senior Personnel Calendar Months	0.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$0
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	5.00
Graduate Students Amount	\$166,449
Undergraduate Students	
Undergraduate Students Count	2.00
Undergraduate Students Amount	\$5,075
Secretarial - Clerical	
Secretarial - Clerical Count	0.00

Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$171,524
C. Fringe Benefits	\$396
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$171,920
D. Equipment	\$40,000
E. Travel	
Domestic	\$9,000
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$24,559
Publication Costs	\$3,000
Consultant Services	\$0
Computer Services	\$0
Subawards	\$725,994
Other	\$58,094
<i>Total Other Direct Costs (G)</i>	\$811,647
H. Total Direct Costs (A Through G)	\$1,032,567
I. Indirect Costs*	\$203,036
J. Total Direct and Indirect Costs (H + I)	\$1,235,603
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$1,235,603
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
Modified Total Direct Costs	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2140043

Managing Division Abbreviation: DMS

Amendment Number: 000

AWARDEE INFORMATION

Award Recipient: Harvard College, President & Fellows of Harvard University

Awardee Address: 1033 MASSACHUSETTS AVE 5th Floor Cambridge, MA 02138-5369

Official Awardee Email Address: [REDACTED]

Unique Entity Identifier (DUNS ID): 082359691

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 08/10/2021

Amendment Number: 000

Proposal Number: 2140043

Amendment Description:

It is a pleasure to inform you that \$1,000,000 is awarded to Harvard College, President & Fellows of Harvard University on behalf of [REDACTED] the recipient of the National Science Foundation's Alan T. Waterman Award. This award is intended to support research or advanced study in sciences. This award is presented annually to a U. S. scientist who has demonstrated outstanding research accomplishments in science or engineering, and exceptional promise for significant future achievement. The intent of Congress when it established the Alan T. Waterman Award, as expressed in P.L. 94-86 and its legislative history, was to give recognition to outstanding young scientists based on their previous achievements. Although the award takes the form of a "no strings" grant for further research or study, it is fundamentally a prize and not a consideration for future services. Further, in no sense is it to be considered as a scholarship or fellowship. (See H.R. Rep. No. 96-91, accompanying H.R. 2729, 96th Congress, 1st Session, P.L. 96-44)

This award provides funding for [REDACTED] endeavors for a period of five (5) years in the total amount of \$1,000,000. The Harvard College, President & Fellows of Harvard University's role in receiving these funds is in the nature of institutional management of an escrow account for the use and benefit of [REDACTED]

Any publication of any material based on or developed under this award must contain an acknowledgment of NSF support and a disclaimer in the following terms:

This material is based upon research supported by the National Science Foundation under the Alan T. Waterman Award, Grant No. DMS-2140043.

Any opinions, findings, and conclusions or recommendations expressed in this publication are those of

the author and do not necessarily reflect the views of the National Science Foundation.

The Foundation congratulates both [REDACTED] and the Harvard College, President & Fellows of Harvard University on this prestigious award.

AWARD INFORMATION

Award Number (FAIN): 2140043

Award Instrument: Standard Grant

Award Date: 08/10/2021

Award Period of Performance: Start Date: 09/01/2021 End Date: 08/31/2026

Project Title: 2021 Waterman Award

Managing Division Abbreviation: DMS

Research and Development Award: Yes

Funding Opportunity: None

CFDA Number and Name: 47.049 Mathematical and Physical Sciences

FUNDING INFORMATION

Amount Obligated by this Amendment: \$1,000,000

Total Intended Award Amount: \$1,000,000

Total Approved Cost Share or Matching Amount: \$0

Total Amount Obligated to Date: \$1,000,000

Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator:

[REDACTED]

Email:

[REDACTED]

Institution: Harvard University

NSF CONTACT INFORMATION

Managing Grants Official
(Primary Contact)

Name: Lynda Kummelt

Email: lkummelt@nsf.gov

Awarding Official

Name: Denise M. Martin

Email: dmartin@nsf.gov

Managing Program Officer

Name: Andrew D. Pollington

Email: adpollin@nsf.gov

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75).



NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2140743

Managing Division Abbreviation: DGE

Amendment Number: 005

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: Supplement

Amendment Date: 12/12/2024

Amendment Number: 005

Proposal Number: 2428816

Amendment Description:

The purpose of this amendment is to:

- Add supplemental support to the award in the amount shown below in the Funding Information section.

Except as modified by this amendment, the award conditions remain unchanged.

Internships under DCL 21-013 are considered equivalent to traineeships. The National Science Foundation claims no rights to any inventions or writings that might result from its traineeship awards. However, fellows and trainees should be aware that NSF, another Federal agency, or some private party may acquire such rights through other support for particular research. Also, fellows and trainees should note their obligation to include an Acknowledgment and Disclaimer in any publication.

AWARD INFORMATION

Award Number (FAIN): 2140743

Award Instrument: Fellowship Award

Award Date: 09/02/2021

Award Period of Performance: Start Date: 09/15/2021 End Date: 08/31/2026

Project Title: Graduate Research Fellowship Program (GRFP)

Managing Division Abbreviation: DGE

Research and Development Award: Yes

Funding Opportunity: None

Assistance Listing Number(s) and Name(s): 47.076 Education and Human Resources (See Amendment 000 for source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$45,215
Total Intended Award Amount: \$4,958,032
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$43,051,421

PROJECT PERSONNEL

Principal Investigator:

Email: [REDACTED]@fas.harvard.edu

Organization:
 PRESIDENT AND
 FELLOWS OF
 HARVARD COLLEGE

NSF CONTACT INFORMATION

Managing Grants Official

(Primary Contact)

Name: Denisa Traboini

Email: dtraboin@nsf.gov

Phone: (703) 292-4916

Awarding Official

Name: Tracy N. Shields

Email: tshields@nsf.gov

Managing Program Officer

Name: Christopher L. Hill

Email: chill@nsf.gov

Phone: (703) 292-8776

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to NSF Grant General Conditions (GC-1), dated 10/01/2024, available at https://www.nsf.gov/awards/managing/general_conditions.jsp.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

BUDGET

A. Senior Personnel	
Senior Personnel Count	1.00
Senior Personnel Calendar Months	0.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer	0.00

Months	
Senior Personnel Amount	\$0
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	1.00
Graduate Students Amount	\$18,500
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$18,500
C. Fringe Benefits	\$0
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$18,500
D. Equipment	\$0
E. Travel	
Domestic	\$15,143
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0

Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$2,299
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$4,738
<i>Total Other Direct Costs (G)</i>	\$7,037
H. Total Direct Costs (A Through G)	\$40,680
I. Indirect Costs*	\$4,535
J. Total Direct and Indirect Costs (H + I)	\$45,215
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$45,215
M. Cost Sharing Proposed Level	\$0

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2140743

Managing Division Abbreviation: DGE

Amendment Number: 000

AWARDEE INFORMATION

Award Recipient: Harvard College, President & Fellows of Harvard University

Awardee Address: 1033 MASSACHUSETTS AVE 5th Floor Cambridge, MA 02138-5369

Official Awardee Email Address: [REDACTED]

Unique Entity Identifier (DUNS ID): 082359691

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 09/02/2021

Amendment Number: 000

Proposal Number: 2140743

Amendment Description:

The National Science Foundation hereby awards a Fellowship Award for support of the project described in the proposal referenced above .

The provisions of the Graduate Research Fellowship Program (GRFP) program solicitation (NSF 21-602) and "Graduate Research Fellowship Program Administrative Guide for Fellows and Coordinating Officials" (NSF 16-104) are available at <https://www.nsf.gov/pubs/2021/nsf21602/nsf21602.pdf> and <https://www.nsf.gov/pubs/2016/nsf16104/nsf16104.pdf>, respectively, are applicable to this grant. If any inconsistencies between the award terms and conditions and the Program Solicitation or Guide are discovered, the Program Solicitation and Guide shall take precedence.

Available grant balances may be used for any GRFP Fellow who is in compliance with applicable program guidelines. Thus, funds from prior year grants may be used to support any NSF Graduate Research Fellow duly enrolled at a GRFP Institution in an eligible advanced degree program in a field supported by NSF (see the "Program Solicitation" and "Guide" for guidance).

Each institution, in accepting the funds, also certifies that the Fellows are eligible to receive the Fellowship under these terms and conditions. The institution has full responsibility for the conduct of the project or activity supported under an NSF grant and for the results achieved.

Funds from this award and/or any amendments to this award are expected to be fully expended in support of the GRFP Fellows prior to expending funds from any newly issued GRFP award.

The GRFP Administrative Guide shall take precedence in the event of any Terms and Conditions conflicts.

AWARD INFORMATION**Award Number (FAIN):** 2140743**Award Instrument:** Fellowship Award**Award Date:** 09/02/2021**Award Period of Performance:** Start Date: 09/15/2021 End Date: 08/31/2026**Project Title:** Graduate Research Fellowship Program (GRFP)**Managing Division Abbreviation:** DGE**Research and Development Award:** Yes**Funding Opportunity:** None**CFDA Number and Name:** 47.076 Education and Human Resources**FUNDING INFORMATION****Amount Obligated by this Amendment:** \$4,958,032**Total Intended Award Amount:** \$4,958,032**Total Approved Cost Share or Matching Amount:** \$0**Total Amount Obligated to Date:** \$4,958,032**Expenditure Limitation:** Not Applicable**PROJECT PERSONNEL****Principal Investigator:****Email:****Institution:** Harvard University**NSF CONTACT INFORMATION****Managing Grants Official**
(Primary Contact)**Name:** Cartia Brown-Morgan**Email:** cbrownmo@nsf.gov**Awarding Official****Name:** LeVar R. Farrior**Email:** lfarrior@nsf.gov**Managing Program Officer****Name:** Christopher Leigh Hill**Email:** chill@nsf.gov**GENERAL TERMS AND CONDITIONS**

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 11/12/2020, available at <https://www.nsf.gov/awards/managing/rte.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.



NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2141382

Managing Division Abbreviation: EAR

Amendment Number: 002

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: Supplement

Amendment Date: 11/22/2024

Amendment Number: 002

Proposal Number: 2452404

Amendment Description:

The purpose of this amendment is to:

- Add supplemental support to the award in the amount shown below in the Funding Information section.

Except as modified by this amendment, the award conditions remain unchanged.

AWARD INFORMATION

Award Number (FAIN): 2141382

Award Instrument: Continuing Grant

Award Date: 01/05/2022

Award Period of Performance: Start Date: 01/15/2022 End Date: 12/31/2025

Project Title: Collaborative Research: Coupled flow-geomechanical models applied to assess earthquake triggering in tectonically active regions – The Los Angeles basin, CA

Managing Division Abbreviation: EAR

Research and Development Award: Yes

Funding Opportunity: NSF 17-554 Geophysics

Assistance Listing Number(s) and Name(s): 47.050 Geosciences (See Amendment 000 for source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$25,955
Total Intended Award Amount: \$303,673
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$329,628

PROJECT PERSONNEL

Principal Investigator: [REDACTED]

Email: [REDACTED]

Organization: PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE

NSF CONTACT INFORMATION

Managing Grants Official

(Primary Contact)

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GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to NSF Grant General Conditions (GC-1), dated 10/01/2024, available at https://www.nsf.gov/awards/managing/general_conditions.jsp.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

BUDGET

A. Senior Personnel	
Senior Personnel Count	1.00
Senior Personnel Calendar Months	0.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$0
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	1.00
Post Doctoral Calendar Months	1.00